

## Message Text

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DIP:WPENKOWSKY

CTR:D:RLHIRSCH

DIP:FRIEDMAN

EUR/SOV:RPARDON

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R 272314Z NOV 74

FM SECSTATE WASHDC

TO AMEMBASSY MOSCOW

UNCLAS STATE 262200

FOR SCICOUNS FROM AEC

E.O. 11652: NA

TAGS: TECH, ENRG, UR

SUBJECT: US-USSR ATOMIC ENERGY AGREEMENT: CTR SYSTEMS

ANALYSIS SEMINAR

PLEASE DELIVER FOLLOWING MESSAGE FROM R.L. HIRSCH TO  
E.P. VELIKOV, DEPUTY DIRECTOR, KURCHATOV ATOMIC ENERGY  
INSTITUTE, WITH COPY TO G.A. ELISSEEV AT KURCHATOV INSTITUTE:  
"DETAILS OF US PARTICIPATION IN THE DECEMBER 9 THROUGH  
DECEMBER 20 EXCHANGE ON THERMONUCLEAR STATIONS AND SYSTEMS  
ANALYSIS ARE TRANSMITTED HEREWITH.  
U.S. PARTICIPANTS, NAMED IN EARLIER COMMUNICATION, WILL ARRIVE  
IN MOSCOW ON DECEMBER 8, 1974. SUBJECTS WHICH THE US TEAM IS  
PREPARED TO DISCUSS ARE:

1. CONCEPTUAL TOKAMAK FUSION REACTOR DESIGN

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2. THETA PINCH REACTOR DESIGN

3. ENGINEERING DESIGN OF CONCEPTUAL MIRROR REACTOR SYSTEMS
4. CONCEPTUAL DESIGN OF FUSION ENGINEERING RESEARCH FACILITIES (FERF)
5. PARAMETRIC SYSTEMS ANALYSIS OF FUSION POWER PLANTS
6. TWO COMPONENT TOROIDAL REACTORS
7. RELATION BETWEEN TCT, DRIVEN TOKAMAKS, IGNITION MACHINES
8. FUSION-FISSION HYBRID SYSTEMS
9. FUSION REACTOR BLANKET DESIGN
10. TECHNOLOGY OF PULSED REACTOR SYSTEMS
11. TRITIUM BREEDING, CONTAINMENT AND CONTROL
12. ENERGY CONVERSION INCLUDING DIRECT CONVERSION AND MHD

WE WOULD BE INTERESTED IN DISCUSSING THESE SUBJECTS AND ANY YOU WOULD SUGGEST. WOULD LIKE TO KNOW OF OTHER SUBJECTS WHICH YOU WOULD PLAN TO DISCUSS. IN ADDITION TO KURCHATOV INSTITUTE IN MOSCOW AND KRASNAYA PAKHRA, VISITS TO CTR FACILITIES AT KHARKOV AND LENINGRAD MAY ALSO BE DESIRABLE. THIS TO BE DETERMINED UPON DELEGATION'S ARRIVAL IN MOSCOW. INGERSOLL

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